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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,959	11/05/2001	Todd D. Creger	00-608	2767
719 Caterpillar Inc	7590 10/23/20	08	EXAM	INER
Intellectual Property Dept.			DAY, HERNG DER	
AH 9510 100 N.E. Ada	ms Street		ART UNIT	PAPER NUMBER
PEORIA, IL 6	51629-9510		2128	
			MAIL DATE	DELIVERY MODE
			10/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)	
10/006,959		CREGER ET AL.	
Examiner		Art Unit	
	HERNG-DER DAY	2128	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE	REPLY FILED <u>07 October 2008</u> FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.
1. 🛛	The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this
	application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the
	application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request
	for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time
	periods:

a) The period for reply expires 3 months from the mailing date of the final rejection.

b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b), ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filled is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term ediplication.

NO	TICE	OF	ΔP	PFΔ	ı

2.	The Notice of Appeal was filed on	. A brief in compliance with 37 CFR	41.37 must be filed within two montl	ns of the date of
	filing the Notice of Appeal (37 CFR 41.3	7(a)), or any extension thereof (37 CF	R 41.37(e)), to avoid dismissal of the	ne appeal. Since a
	Notice of Anneal has been filed any ren	by must be filed within the time period	eet forth in 37 CFR /11 37(a)	

3 The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because

ΔM	END	MEN	TS

(a)	☐ They raise new issues that would require further consideration and/or search (see NOTE below);
(b)	☐ They raise the issue of new matter (see NOTE below);
(c)	They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for
_	_ appeal; and/or
(d)	☐ They present additional claims without canceling a corresponding number of finally rejected claims.
	NOTE: (See 37 CFR 1.116 and 41.33(a)).
4. 🔲 The	amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. App	plicant's reply has overcome the following rejection(s):
	wly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the
non-	-allowable claim(s).
	purposes of appeal, the proposed amendment(s): a) 🔲 will not be entered, or b) 🛭 will be entered and an explanation of
	the new or amended claims would be rejected is provided below or appended.
The	status of the claim(s) is (or will be) as follows:
Clair	m(s) allowed:
Clair	m(s) objected to:
Clair	m(s) rejected: <u>1-12</u> .
Clair	m(s) withdrawn from consideration:
AFFIDAVI	IT OR OTHER EVIDENCE
8. The	affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered
	ause applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and not earlier presented. See 37 CFR 1.116(e).
9. 🔲 The	affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will <u>not</u> be tred because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a

11. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

See Continuation Sheet.

showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10.
The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

12. Note the	attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s).
13. ☐ Other:	

/Kamini S Shah/

Supervisory Patent Examiner, Art Unit 2128

REQUEST FOR RECONSIDERATION/OTHER

Continuation of 11, does NOT place the application in condition for allowance because:

Applicants' arguments are not persuasive. For example:

Regarding claim 1, Applicants has argued in page 3, the last second line through page 4, line 2, "Quist adds that '[f]or example,
whenever a machine 11 fails, the collected data corresponding to that machine may be used by such a global neural network as a known
data set for training purposes." Quist, col. 19, II. 8-11. In other words, Quist provides an example of refining the neural network without a
need for comparison."

The Examiner respectfully disagrees with Applicants' argument. First, without anticipative variations in the compared data, there is no motivation to refine the weighting parameters. In other words, comparing is inherently implied and variations are anticipated before the weighting parameters are refined. Second, claim 1 recites no detailed limitations regarding 'the corresponding data of the model development machine (e.g., material of the machine, material is relevant to predicting the expected life, the characteristics and operations of the machine' and how to use the "variations in the compared data" to "update at least one of an estimator ad model". Furthermore, no specific limitation regarding "comparing" has been recited. In other words, even a mental comparing reads into the claim. Therefore, for the purpose of claim examination with the broadest reasonable interpretation, whenever a machine 11 fails, other seriors are interested, with the collected data is definitely the result "in response to variations" in "comparing" the collected data with the lost, invalid, or unavailable data of the failed machine.

Regarding claim 7, Applicants has argued in page 5, lines 7-10, "Quist describes updating neural networks with data collected from local
monitoring devices. In contrast, claim 7 recites 'comparing the computed parameter with the estimated parameter' (emphasis added).
Quist does not disclose or even suggest this feature."

The Examiner respectfully disagrees with Applicants' argument. First, without anticipative variations in the compared data, there is no motivation to refine the weighting parameters. In other words, comparing is inherently implied and variations are anticipated before the weighting parameters are refined. Second, claim 7 recites no detailed limitations regarding how to use the "variations in the computed parameter and the estimated parameter for Update at least one of an estimator and the delivered neural network model". Furthermore, no specific limitation regarding "comparing" has been recited. In other words, even a mental comparing reads into the claim. Therefore, for the purpose of claim examination with the broadest reasonable interpretation, Quist's "fening the weighting themseters and downloads the parameters to local monitoring devices" is definitely the result "in response to variations" in "comparing" the computed parameter and the estimated parameter.

3. Regarding claim 10, Applicants has argued in page 6, lines 4-5, "Contrary to the Office Action's assertions, none of these disclosures teaches or even suggests 'determining a level of variability of the characteristics of seach machine as a function of the data (emphasis added) or 'determining a level of variability of the operations of each machine relevant to a respective work site as a function of the data," as recited in claim 10." and in page 6, lines 14-15, "Quist discloses monitoring running time. Quist does not disclose or suggest 'determining an aging factor."

The Examiner respectfully disagrees with Applicants' arguments. Please refer to paragraphs 5-4 and 5-5 in Office Action dated June 23, 2008 for "Response" to Applicants' arguments.